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In the absence of the governor Silva Porto administered the district for a year with great energy and integrity, and it was after his representations that the military occupation was decided upon, in 1850. He crossed the continent from Benguela to the mouth of the Rovuma River and back, in the years 1853-56, and visited in his trading expeditions, and explored, a great part of South Central Africa.

The African life seems to have fascinated him, as it did Livingstone; and he cast in his lot with the people, fixing himself at Belmonte in Bihé, where he built his home, and maintained, at his own expense, a schoolhouse.

His open and manly character and his fair dealing conciliated the regard of the natives, and added to the prestige of the Portuguese name. In 1889, by an unhappy accident, his house was burned to the ground, and he was reduced to poverty. The Lisbon Geographical Society undertook measures for his relief, and appealed to the government in his behalf; but his unexpected death put an end to these efforts.

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CHARLES A. JOY,

BORN, OCTOBER 8, 1823

DIED, MAY 29, 1891.

Prof. Charles A. Joy, a chemist and scientist of reputation, was born at Ludlowville, Tompkins County, New York. He studied at Union College, and at the Harvard Law School, and afterwards at Göttingen and in Paris.

He occupied the Chair of Chemistry, first at Union

College, and afterwards, for twenty years, at Columbia, withdrawing in 1877, on account of failing health.

He was an officer of the American Geographical Society for about three years, having been elected a member of the Council at the annual meeting held January 19, 1875, and twice elected Foreign Corresponding Secretary; the first time at a special meeting of the Council, held February 12, 1876, to fill the vacancy caused by the death of Dr. E. R. Straznicky, and again at the annual election held January 16, 1877.

#### TITLES OF PAPERS IN GEOGRAPHICAL JOURNALS.

AMSTERDAM.—*Tijdschrift van het Kon. Nederlandsch Aardrijkskundig Genootschap.*

Public Works in 1889—Differences of Level from a Normal Zero Point—The Assistant-Residence at Gorontalo (Celebes)—Time Reckoning in the Philippines—Late Publications on General Geography—Our Library—Geographical Works and Maps brought out in the Netherlands in 1890—Communication concerning the Scientific Exploration of the Kei islands (Malay Archipelago)—The Geographical Congress at Berne—An Observation repeatedly made in a little Excursion through North Overyssel—The Geology of Celebes—Report of a Voyage in the East India Archipelago in 1888–1889, under instruction of the Netherlands Geographical Society.

BERLIN.—*Gesellschaft für Erdkunde, Verhandlungen.*  
Periodical Changes of Position in the Earth's Axis (Prof. W. Foerster)—A Second Visit to the

Veddas of Ceylon (Dr. P. Sarasin)—Grombtschefsky's Expedition to Central Asia in 1889—1890 (Conradt)—On the Mechanical Effects caused by Water Ice (as distinguished from Snow Ice), by Dr. E. Goebeler.

*Zeitschrift.*

The Punjab (Dr. E. Jung)—The Kinkoni Region in Western Madagascar (Dr. A. Voeltzkow).

EDINBURGH.—*The Scottish Geographical Magazine.*

From the Mouth of the Tana to the Source-region of the Nile (Dr. Carl Peters)—The Mapping of the World, Part III.: Asia (J. G. Bartholomew, F.R.S.E.)—The Pilcomayo Expedition—Southern Africa, Past and Present (Rev. James Stewart, M.D.)—On the Comparative Value of African Lands (A. Silva White, F.R.S.E.)—Explorations in British East Africa—Britannic Confederation, I: A Survey of Existing Conditions (Sir John Colomb, K.C.M.G., M.P.)—Methods and Processes of the Ordnance Survey (Col. Sir Charles Wilson, K.C.B., etc., Director-General of the Ordnance Survey of the United Kingdom)—Statical Oceanography, A Review (Hugh Robert Mill, D. Sc., etc.)

GOTHA.—*Petermanns Mitteilungen.*

Maj. v. Wissmann's Second Journey across Africa, 1886 and 1887 (Dr. B. Hassenstein)—The Kapaonik Range in Servia (Dr. W. Götz)—Danish Explorations in Greenland in 1889 and 1890 (H. Rink)—The Distribution and Extension of the Races in Brazil according to our present Information (Dr. P. Ehrenreich)—De-

velopment of the Watersheds in the Region of the Julian Alps (Dr. O. Gumprecht)—The Former Lalathal Glacier in the Rodna Mountain (Dr. F. W. Paul Lehmann).

LISBON.—*Boletim da Sociedade de Geographia.*

Maritime Achievements of the Portuguese in the XVI and XVII Centuries (Sousa Viterbo)—The Golden Fields : Portuguese Africa (A. P. Paiva e Pona)—Expedition to the Muatayamvo : Diary of J. Rodrigues Graça, 1843-1847.

LONDON.—*Proceedings of the Royal Geographical Society.*

The Meteorological Results of the *Challenger* Exposition in Relation to Physical Geography (Alexander Buchan)—Notes on a Botanical Trip in Madagascar (G. F. Scott Elliott)—Some Further Notes on North Morocco (Walter B. Harris)—Summary of Recent Pendulum Observations in Russia (E. Delmar Morgan)—Messrs. Jackson and Gedge's Journey to Uganda via Masai-Land (E. G. Ravenstein)—Expedition of the Brothers Grijimailo to the Tian Shan Oases and Lob-Nor. Translated, with Notes and Introductory Remarks, by E. Delmar Morgan—From Hai-Phong in Tong-King to Canton, Overland (A. R. Agassiz)—Journey along the Southern Frontier of Nyassa-Land (John Buchanan)—The Sundarbans : Its Physical Features and Ruins (John Rudd Rainey)—Note on the Kur River in Fârs, etc. (A. Houtum-Schindler)—Manipur.

MADRID.—*Boletín de la Sociedad Geográfica.*

Spanish Guinea—Spain in Africa—Internal Navi-

gation in Spain (D. Andrés de Llauradó)—The Island of Fernando Po (D. German Garibaldi)—Summary Account of the Travels and Explorations performed by Spaniards during the present century, presented to the IV International Geographical Congress, held in Paris, August, 1890, by D. Francisco Coello—The Roman Roads and the Routes of Pilgrimage in Spain: An Extemporaneous Sketch laid before the IV International Geographical Congress in Paris by D. Francisco Coello, President of the Madrid Geographical Society—Authentic Notices of the Famous River Marañón (D. Marcos Jiménez de la Espada).

PARIS—*Société de Géographie, Compte Rendu.*

The Configuration of the Aral Sea and the Formation of the Fresh-Water Lake of Aibugir, lately surveyed—M. Raoul Humann in the region of the Donaï (Cochin-China)—The Pacific Slope of Costa Rica—French Geodesy—Annamite Tea and Its Culture—Rousson and Willems in Tierra del Fuego—The Kola Peninsula (Lapland)—Ryder's Greenland Expedition—The Geographical Congress at Berne—The Causse de Gramat and the Hidden River in the Abyss of Padirac—Reception of Messrs. Catat, Maistre and Foucart, Explorers of Madagascar—M. Gallois and his volume on *The German Geographers of the Renaissance*—The Veddas—Capt. Monteil in the Niger Basin—M. E. Blanc in Central Asia—M. and Mme.

Rogozinski in Western Africa—M. J. Martin in Asia—South Africa and M. Foa's proposed Expedition—Meeting of the *Société*, April 17—The Winter of 1890-91 in Central Asia and Siberia—The Transcaspian Railway—M. Roux in Kashmir—M. de la Martinière in Morocco—Uganda—Madagascar—The independent Bataks in Sumatra—M. Boutroue's Archæological Mission to Portugal—A Map of America, of 1669—The French Sudan.

ROME.—*Società Geografica Italiana, Bollettino.*

The Traveller Enegildo Frediani (Dr. A. Wolynski)—Colonies and States of South Africa (G. D. Cocorda)—Lake Toba and the Batak Country (Elio Modigliani)—The Badoeï, in Java (Prof. E. Teza)—Dr. A. H. Post on the Development of the Family (Dr. G. A. Colini)—From Obbia to Allula: East and North-east Coast of Somaliland (L. Bricchetti-Robecchi)—The Cartographical Projections of Albiruni (M. Fiorini).

VIENNA.—*Mittheilungen der Kais. Königl. Geographischen Gesellschaft.*

The Ninth Congress of German Geographers—Journey through Montenegro (Dr. O. Bumann)—Rainfall of Croatia (A. Franovic)—A Waterway in South America (Lieut. W. Kreuth)—Old Manuscript Charts in the Imp. Royal Familien-Fideicommiss-Bibliothek in Vienna (Dr. A. Karpf)—Volcanoes in North-eastern Iceland (Th. Thoroddsen)—Annual Meeting of the Society.